

**Table 3-9**

**Results of likelihood ratio test and parameter estimates with their standard errors (in parentheses) for the reduced ( $H_0: P_A = P_D$ ) and generalized ( $H_A: P_A \neq P_D$ ) models (model I in Section 2.8) for chinook salmon immediate (1 h) and 48 h survival passage at spillbay 6 (overflow weir) at The Dalles Dam, November 1995. Calculations based on ignoring heterogeneity in control trials.**

Parameter	1 h	48 h
$H_0: P_A = P_D$		
S	0.962 (0.0187)	0.962 (0.0187)
P	0.994 (0.0045)	0.994 (0.0045)
$\tau$	0.990 (0.025)	0.990 (0.025)
90% CI on $\hat{\tau}$	0.951 - 1.0	0.951 - 1.0
$H_A: P_A \neq P_D$		
S	0.962 (0.0187)	0.962 (0.0187)
$P_A$	1.0* (NA)	1.0* (NA)
$P_D$	0.875 (0.083)	0.875 (0.083)
$\tau$	0.990 (0.025)	0.990 (0.025)
90% CI on $\hat{\tau}$	0.951 - 1.0	0.951 - 1.0

\* Parameter value set to 1.0 when maximum likelihood estimate (MLE) exceeded admissible range.

\*\* Likelihood ratio tests (LRT) of equal recapture probabilities of alive and dead fish could not be rejected ( $P > 0.05$ ) for either scenario. LRT=0.385 P( $X^2_{1,0.05} = 3.84$ ).